

FIG.2 PRIOR ART

EXECUTION HISTORY INFORMATION OUTPUTTED BY OS

EXECUTION HISTORY INFORMATION OUTPUTTED BY OS

EXECUTION HISTORY INFORMATION OUTPUTTED BY OS

FIG.3A PRIOR ART

type oid sysid obj	
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FIG.3B PRIOR ART

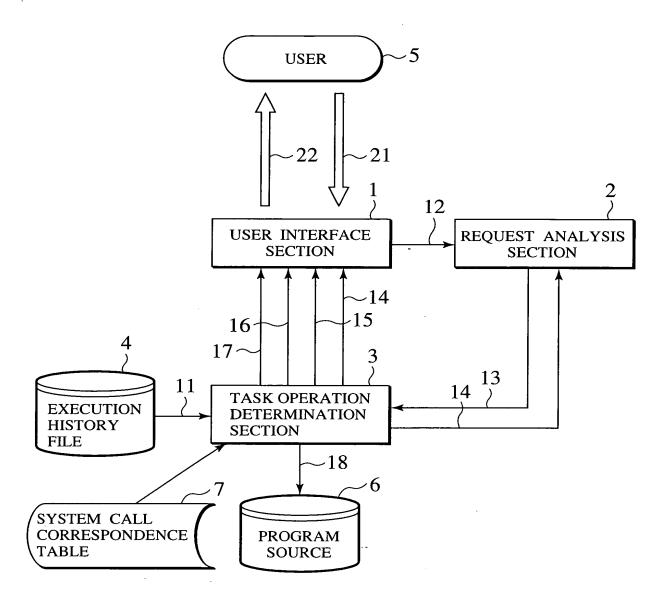
6	0	1		··· (i)
1	1	-9	2	··· (ii)
1	1	-9	3	··· (iii)
1	1	-17		··· (iv)
6	1	3		(v)
1	3	-19	1	··· (vi)
6	3	1		··· (vii)
	:			
	:			

WHERE

sysid : sta_txt ... -9

: ext_txt ... -10 : slp_txt ... -17 : wup_txt ... -19

FIG.4



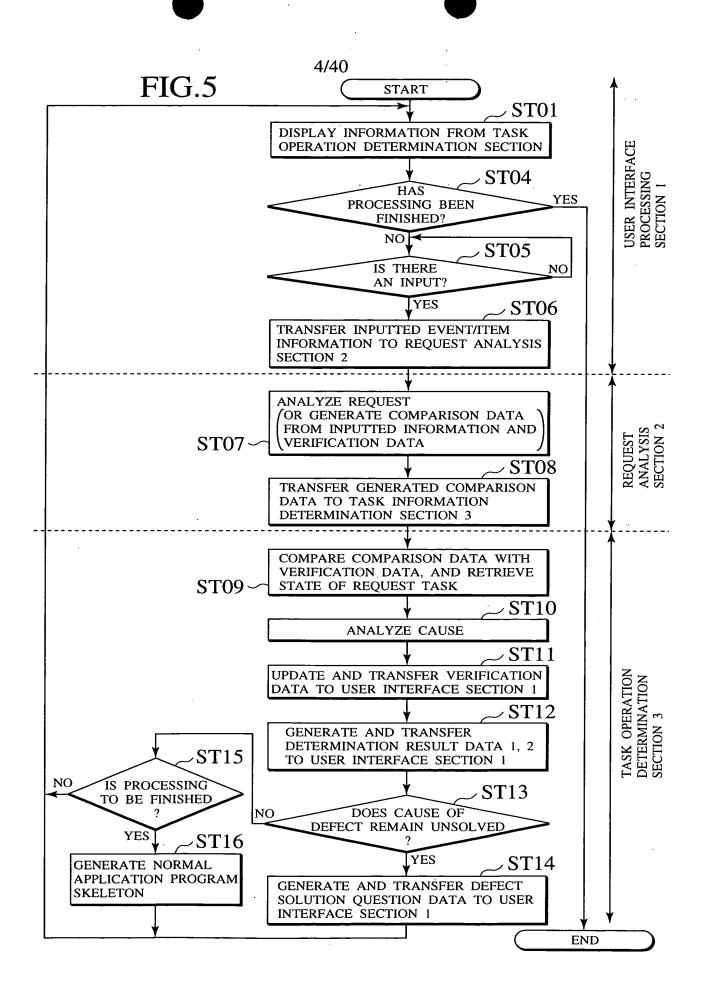


FIG.6 5/40

ORDER OF EVENTS	EVENT ATTRIBUTE (ISSUANCE OF (SYSTEM CALL)	ISSUED SYSTEM CALL	SYSTEM ORIGINATION ORIGINATI CALL TASK ID TASK PRIC		
ORDER OF EVENTS	EVENT ATTRIBUTE (DISPATCH)	DISPATCH ORIGINATION TASK ID	DISPATCH ORIGINATION TASK PRIORITY	DISPATCH DESTINATION TASK ID]_
ORDER OF EVENTS	EVENT ATTRIBUTE (INTERRUPTION) PROCESSING	HANDLER ATTRIBUTE CYCLE START HANDLER, ALARM HANDLER, INTERRUPTION HANDLER	HANDLER NO.		
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		TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK
	- [DISPATCH DESTINATION PRIORITY			—
	,	/ :	:	i	

EVENT ATTRIBUTE: ISSUANCE OF SYSTEM CALL

DISPATCH INTERRUPTION PROCESSING

HANDLER ATTRIBUTE: CYCLE START HANDLER

ALARM HANDLER

INTERRUPTION HANDLER

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
	TIM	IING (X)	

FIG.8

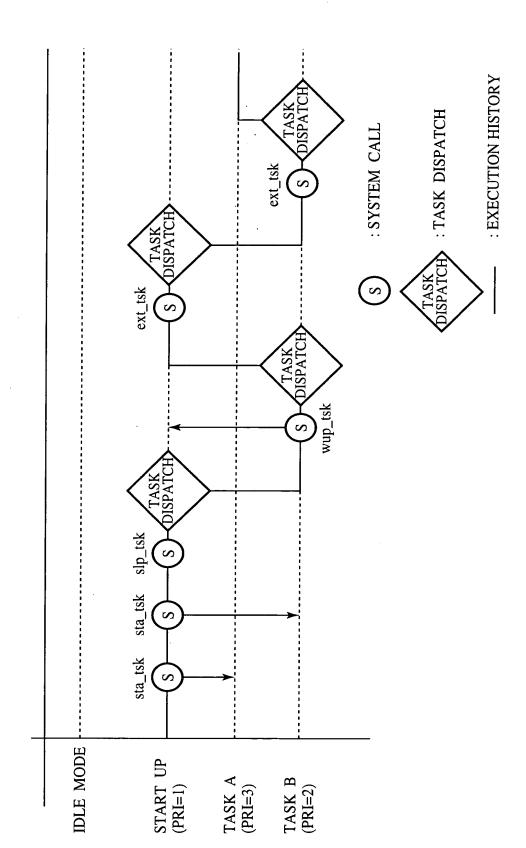
(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
		::
:		

FIG.9

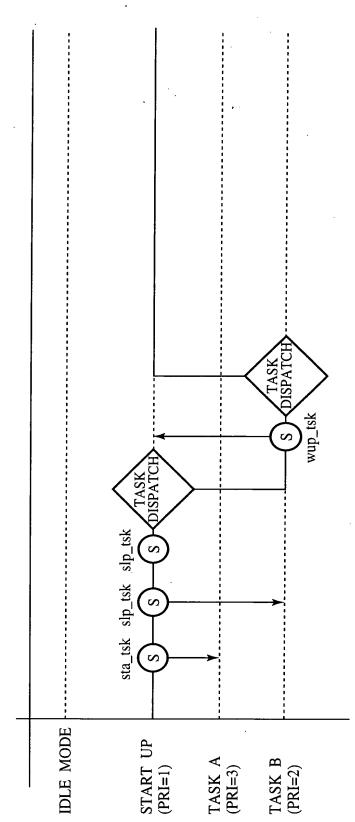
(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_tsk
:	:	:
:		:

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
-		
	:	

FIG. 1.1



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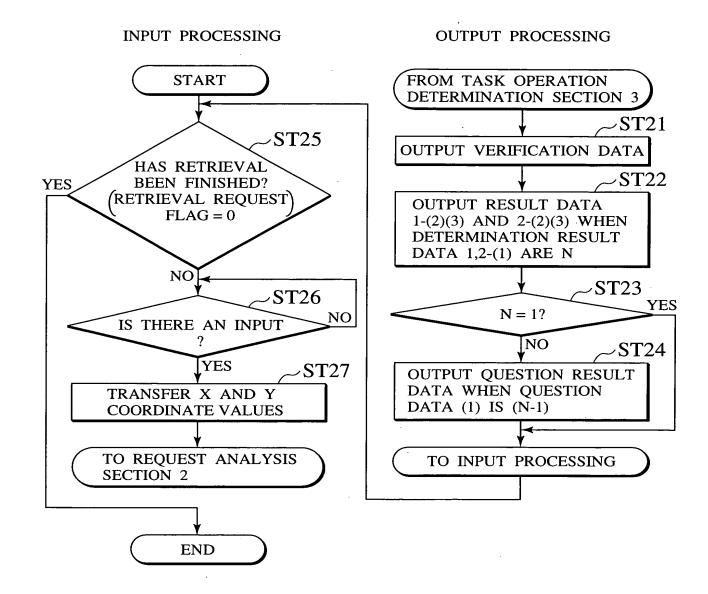
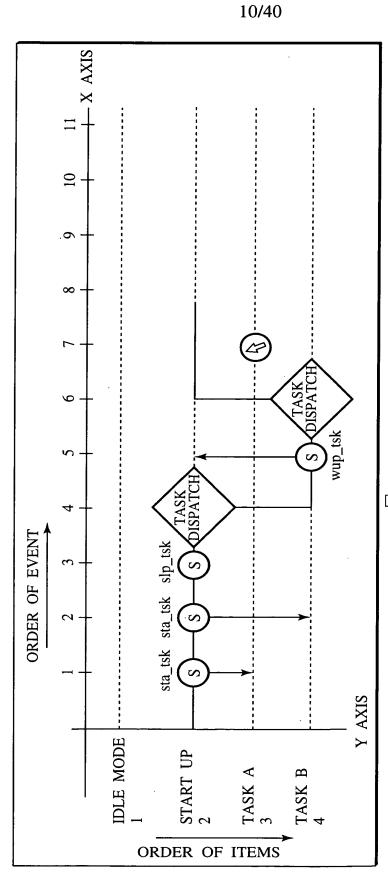


FIG. 14

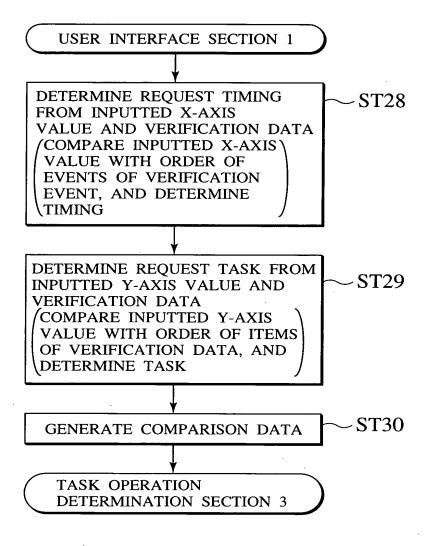


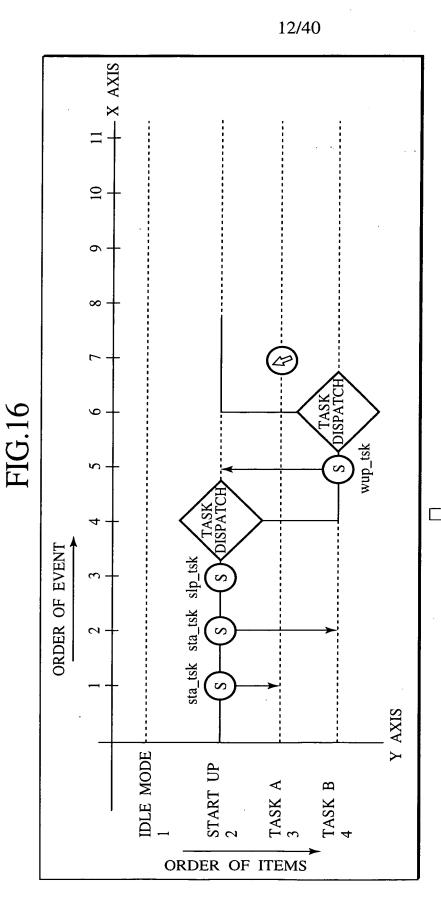
INPUT CONDITIONS: ONLY LINE INDICATING
EXECUTION HISTORY CAN
BE DEFINED

(A): MOUSE CURSOR

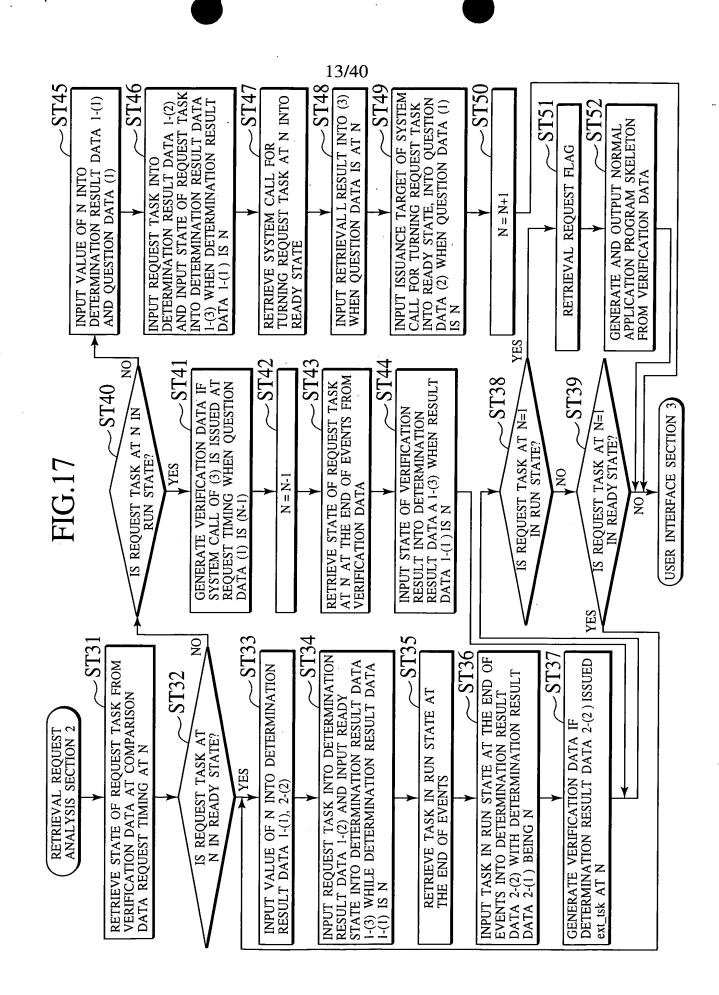
MAKE MOUSE CURSOR CLOSER TO PLACE TO WHICH SYSTEM CALL IS TO BE ISSUED

7	3
X AXIS	Y AXIS





REQUEST TIMING REQUEST TASK TASK A IF MOUSE CURSOR IS MADE CLOSER TO PLACE TO WHICH SYSTEM CALL IS TO BE ISSUED COMPARISON DATA X AXIS Y AXIS (FIRST INPUT)



⟨SYSTEM CALL CORRESPONDENCE TABLE⟩

NO	SYSTEM CALL	CORRESPONDING SYSTEM CALL
1	sta_tsk	ext_tsk
2	slp_tsk	wup_tsk
3	wai_sem	sig_sem
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	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY		RUNNING	READY	RUNNING					, ii						
	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	3	2	1	2	-	_					(3)SYSTEM CALL	READY STATE				 	
	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE	TASK A	TASK B		TASK B	START UP	START UP				N DATA	R (3)			ATA 2)			
	TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING	WAITING		READY	l				JTION QUESTION DATA	JISSUANCE TARGET TO WHICH SYSTEM CALL FOR	TURNING REQUEST TASK IN READY STATE IS ISSUED		(DETERMINATION RESILT DATA	(2)TASK IN RUN STATE AT THE END OF EVENTS		
	ISSUANCE ORIGINATION TASK PRIORITY	1	1	-	1	2	2				(DEFECT SOLUTION	(2)ISSUANCE WHICH SYS	TURN IN RE		RMINAT	(2)TASK THE E		
	ISSUANCE ORIGINATION TASK ID	START UP	START UP	START UP	START UP	TASK B	TASK B				(DEFE	N(1)	\(\frac{1}{1}\)		(DET	N(1)		
	HANDLER NO.	1	_		_		1					y)	<u></u>	1				
	HANDLER ATTRIBUTE	1	-				ī			-		ITEM (TASK(y))	TASK		4TA 1)	TASK		
	ISSUED SYSTEM CALL	sta_tsk	sta_tsk	slp_tsk		wup_tsk	1					NOR 1	7		Q	OF EST		
(VARIFICATION DATA)	EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH				(COMPARISON DATA)	PRIOR POSTEI EVENT	7.		(DETERMINATION RESULT	(2)REQUEST (3)ST TASK RI		
(VARIE	ORDER OF EVENTS	1	2	3	4	5	9				(COMP	z	_		(DETE	(I)N		

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●[PROCESSING 2]→[PROCESSING COMPLETED] ⟨VARIFICATION DATA⟩

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TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY		RUNNING	READY	RUNNING		RUNNING		RUNNING
ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	3	2		2			1	2		3
ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE	TASK A	TASK B	1	TASK B	START UP	START UP	1	TASK B	1	TASK A
TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING	WAITING	1	RUNNING	1	DORMANT	1	DORMANT	1
ISSUANCE ORIGINATION TASK PRIORITY	1	1	1	1	2	2	1	1	2	2
ISSUANCE ORIGINATION TASK ID	START UP	START UP	START UP	START UP	TASK B	TASK B	START UP	START UP	TASK B	TASK B
HANDLER NO.	1	1	1				1	1	-	1
HANDLER ATTRIBUTE	1	1	1	1	1	1	-	ı	1	1
ISSUED SYSTEM CALL	sta_tsk	sta_tsk	slp_tsk		wup_tsk	-	ext_tsk	_	ext_tsk	1
EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH
ORDER OF EVENTS	1	2	3	4	5	9	7	8	6	10

(3)SYSTEM CALL FOR REQUEST TASK IN READY STATE			(3)ext_tsk
(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED		(DETERMINATION RESULT DATA 2)	(2)TASK IN RUN STATE AT THE END OF EVENTS
N(1)		(DET	N(1)

TURNING

(DEFECT SOLUTION QUESTION DATA)

ITEM (TASK(y)) TASK A

POSTERIOR EVENT

PRIOR EVENT

Z

(COMPARISON DATA)

		بد	*	
(DETERMINATION RESULT DATA 1)	(2)REQUEST (3)STATE OF TASK REQUEST TASK	READY	READY	
ERMINATION	(2)REQUEST TASK	TASK A	TASK A	
(DETE	N(1)	1	1	

sk	* 	<u>*</u>	Γ
(3)ext_tsk	ext_tsk	ext_tsk	
(2)TASK IN RUN STATE AT THE END OF EVENTS	START UP	TASK B	
N(1)	-	-	

```
File
           : sample.c
           : 1999/11/11
   Data
   Developer: TOSHIBA
   Application Skeleton
#include"itron.h"
#define TASK_ID1
#define TASK_ID2
#define TASK_ID3
TASK startup():
TASK TaskA():
TASK TaskB():
TASK startup():
     ER ercd;
      ercd = sta_tsk(TASK_ID2,0);
      ercd = sta_tsk(TASK_ID3,0);
      ercd = slp_tsk();
      ext_tsk();----- (a)
TASK TaskA()
      for(;:){
}
TASK TaskB()
      ER ercd;
       ercd = wup_tsk(TASK_ID1);
}
```

FIG.22

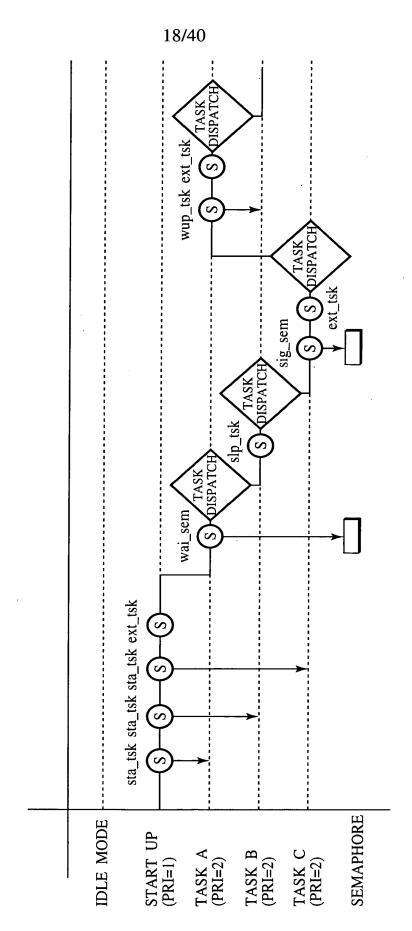
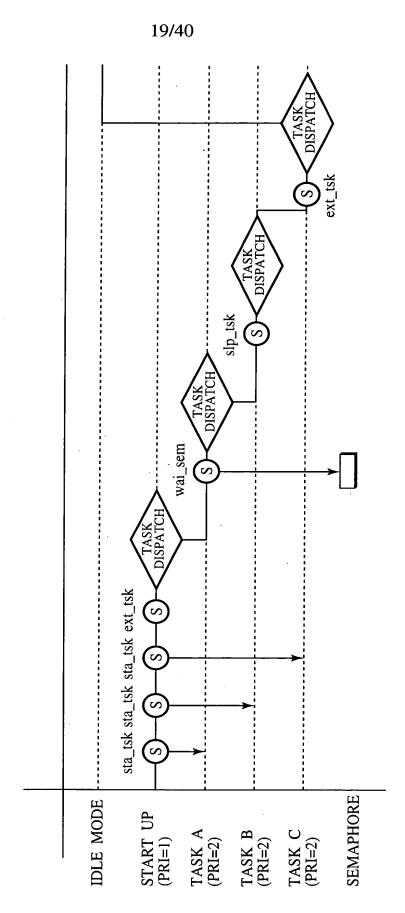


FIG.23



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OPTION DATA			Ī	ı	Τ.	T	ī	ſ	T	_	T	<u> </u>	T				Ş			1			
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ROCESSING 1]—IFREY REQUEST1 RIFICATION DATA) RIFICATION DATA) RIFICATION DATA) RIFICATION DATA) RIFICATION DATA) RIFICATION DATA RIFICATION QUESTION DATA RIFICATION QUESTION DATA RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 2) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 4) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 2) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 4) RIFICATION RESULT DATA 4) RIFICATION RESULT DATA 5) RIFICATION RESULT DATA 6) RIFICATION RESULT DATA 7) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 2) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 4) RIFICATION RESULT DATA 5) RIFICATION RESULT DATA 6) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 2) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 3) RIFICATION RESULT DATA 4) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 2) RIFICATION RESULT DATA 3)		IDESTINATION	2	2	2		2	-	2		2		1				STEM CALL	SOUEST TASE				rr	
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ROCESSING 1] + [FIRST REQUEST] RIFICATION DATA) A STATEM CALL STATE OF TASK DISPATCH — TASK DISPATCH DISPATCH — TASK DISPATCH DISPATCH DISPATCH — TASK DISPATCH		(ISSUANCE DESTINATION RESOURCE		1	1			SEMAP	TASK 1	1	1					ON DAT	TO TO	TASK ISSUEI		•	AT		
ROCESSING 1]→[FIRST REQUEST] RIFICATION DATA) ALLA BEGUEST RIFICATION DATA ALLA BEGUEST ALLA BECUEST BECUEST ALLA BECUEST		CTATE AETED	RUNNING	RUNNING	RUNNING	DORMANT		WAITING	1	WAITING	1	DORMANT	1				NCE TARGET	NG REQUEST ADY STATE IS		ION RESULT D	S _P		
ROCESSING 1] → [FIRST REQUEST] RIFICATION DATA) RIFICATION DATA RIFICATION DATA BACKLIST REQUEST] RIFICATION DATA RIFICATION DATA RIFICATION DATA RIFICATION DATA RIFICATION DATA ROCESSING 1] → [FIRST REQUEST TASK RIFICATION DATA ROCESSING 1] → [FIRST REQUEST TASK RIFICATION DATA RIFICATION RESULT DATA 1) RIFICATION DATA RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 1) RIFICATION RESULT DATA 1)		ISSUANCE ORIGINATION TASK PRIORITY	1	I	1	1	1	2	2	7	2	7	2			CT SOLU	(2)ISSUA WHICE	TURNI IN RE		RMINAT	(2)TASK THE E		
ROCESSING 1] → [FIRST REQUEST] RIFICATION DATA) RIFICATION DATA BURNALISON DATA SYSTEM CALL Sta_tsk — — — — — — — — — — — — — — — — — — —		ORIGINATION	_			START UP				TASK B	TASK B					(DEFE	14(1)			(DETE	1 1		
ROCESSING 1]—(FIRST REQUEST) RIFICATION DATA) AND ALL SYSTEM CALL sta_tsk TASK DISPATCH SYSTEM CALL sta_tsk TASK DISPATCH TASK DISPATCH TASK DISPATCH SYSTEM CALL sta_tsk TASK DISPATCH TASK DISPATC			-		1	1	1	1	1	-	1	-	1	1		ſ	<u>~</u>	ÌТ	I				
ROCESSING 1] + [FIRST AND DATA) AND	UEST]	HANDLER	1	1	ı	-	1	1	1	1	١	1	ı				ITEM (TASK()	TASK		(A 1)	I [—]		
SYSTEM CASSING 11- ASK DISPA SYSTEM CASSTEM CA	Ţ	ISSUED SYSTEM CALL	sta_tsk	sta_tsk	sta_tsk	ext_tsk	1	wai_sem	I	slp_tsk	ļ	ext_tsk	1				NOR	2		JLT DAT	ATE OF		
SYSTEM C TASK DIS SYS]→[FIR DATA)		ALL	ALL	ALL	ALL	ATCH	ALL	ATCH	ALL	ATCH	ALL	АТСН		İ	ATA)	POSTI EVEN			N RESU	(3)ST RE		
ORDER OF EVENTS ORDER	CESSING 1	EVENT ATTRIBUTE				SYSTEM C	TASK DISF	SYSTEM C	TASK DISF	SYSTEM C	TASK DISF	SYSTEM C	TASK DISF			ı	PRIOR EVENT	12		RMINATION	(2)REQUEST TASK		
	●[PRO ⟨VARI	ORDER OF EVENTS	-	2	3	4	5	9	7	8	6	10	11			(COMI	z			(DETE	I I		

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	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY	READY		RUNNING		RUNNING		RUNNING					FOR TURNING	Zi V	tsk						
	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE (DESTINATION ID)	2	2	2		2	1	2	1	2		1			STEM CALL	REQUEST TASK IN READY STATE	wup_tsk			_	. T		—
	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION) (RESOURCE	TASK A	TASK B	TASK C		TASK A	SEMAPHORE	TASK B	ı	TASK C		IDLE MODE		QUESTION DATA					ATA 2)		\dagger		
	TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING	RUNNING	DORMANT	_	WAITING	_	WAITING	1	DORMANT			JTION QUESTIC	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR	NG REQUEST ADY STATE IS	TASK A		ION RESULT DATA		END OF EVENT		
	ISSUANCE ORIGINATION TASK PRIORITY	1	1	1	1	1	2	2	2	2	2	2		(DEFECT SOLUTION	(2)ISSUA WHICE	TURNI IN RE			(DETERMINATION	(2)TASK	THE		
	ISSUANCE ORIGINATION TASK ID	START UP	TASK A	TASK A	TASK B	TASK B	TASK C	TASK C		(DEFE	18(1)				(DETE	N(1)	丁						
7	HANDLER NO.		·	1	1	1	1	1	ı	-	1	1					×	1			4	×	
,	HANDLER ATTRIBUTE	ı	1		1	ı	ı	I	ı	1	1	1			ITEM (TASK(v))	TASK	IASK		A 1		IASK	2	
	ISSUED SYSTEM CALL	sta_tsk	sta_tsk	sta_tsk	ext_tsk	1	wai_sem	!	slp_tsk	I	ext_tsk	ı			OR	12	+		ULT DATA 1)	(3)STATE OF	EQUES!	WALLING	
(VARIFICATION DATA)	EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH		(COMPARISON DATA)	PRIOR POSTERI EVENT	12 1			(DETERMINATION RESUL	(2)REQUEST (3)ST	TACV D	I ASK B							
(VARIFICATION	ORDER OF EVENTS	1	.2	3	4	5	9		∞	6	10	=		(COMP	Z		7		(DETE	N(I)		-	

TASK STATE AFTER					77		(2	Ī	77					IING								
AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY	READY		RUNNING	1	RUNNING	1	RUNNING					FOR TURNING K IN	tek	Ten.						
ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE (DESTINATION ID	2	2	2		2	-	2	1		1				(3)SYSTEM CALL FOR REQUEST TASK IN READY STATE	win tek	dn v	318_30111	;				
ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	TASK A	TASK B	TASK C	1	TASK A	SEMAPHORE	TASK B		TASK C		IDLE MODE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	IN DAIA/		_			DATA 2	AT	s (3)ext_tsk		
TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING	RUNNING	DORMANT	1	WAITING		WAITING	1	DORMANT	1	ATAG MOITSELLO MOITE		(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN PEANY STATE IS ISSUED	ADI SIAIE IS TASK A	TASK		RESULT	KUN STA	P		
ISSUANCE ORIGINATION TASK PRIORITY	-	-	1	1	1	2	2	2	2	2	2	(DEFECT SOLITION	CI SULL	(2)ISSUA WHICE TURNI	2			(DETERMINATION	(2)TASK IN F	THE		
ISSUANCE ORIGINATION TASK ID	START UP	TASK A	TASK A	TASK B	TASK B	TASK C	TASK C	(nere	מינים\	N(1)	<u> </u> -	,	7	(DETE	1	N(I)						
HANDLER NO.			1	ı	ı	-	ı	_	-	-	1		ſ	B(X)	1 ∢(<u>×</u> اد		1			4	×
HANDLER ATTRIBUTE		ı	1	l	1	Ι	1	-	١	1	1			ITEM (TASK(y)) TASK B	TASK	IASK		A 15		TASK		5
ISSUED SYSTEM CALL	sta_tsk	sta_tsk	sta_tsk	ext_tsk	1	wai_sem	-	slp_tsk		ext_tsk	1			IOK IOK	7			JLT DATA	TATE OF	EQUEST TASK	WAITING	WAIIING
EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	RISON DATA)	<u> </u>	NT EVE	9			(DETERMINATION RESUI	(2)REQUEST (3)STA		TASK B	I ASN A						
	1 S	2 S	3 S		5 T		7 T	8 S	1 6	10 S	11 T	(COMPARISON	- - -		75	+	-	DETER	(2)	\neg		\dagger

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	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY	READY	ļ	RUNNING	1	RUNNING		RUNNING		1	RUNNING				HOP THENING			tsk	sem		-					
	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION) ID	2	2	2		2	1	2	1	2	-		2				3)SYSTEM CALL	REQUEST TASK IN	SADY STATE	wup tsk	s gis				1			1
	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	TASK A	TASK B	TASK C	-	TASK A	SEMAPHORE	TASK B	1	TASK C	SEMAPHORE		TASK A			N DATA	H	<u>)</u>	_				ATA 2	$\left \begin{array}{c} AT \\ S \end{array} \right (3) \text{ext_tsk}$				
	TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING	RUNNING	DORMANT	1	WAITING	1	WAITING	I	RUNNING	DORMANT				SOLUTION QUESTION	NCE TARGET	WHICH SYSTEM CALL FOR TURNING REOUEST TASK	ADY STATE IS	TASK A			(DETERMINATION RESULT DATA	K IN RUN STATE A				
	ISSUANCE ORIGINATION TASK PRIORITY	1	1	-	_	-	2	2	2	2	2	2	2				(2)ISSUA	WHICH	IN RE				RMINAT	(2)TASK IN THE END				
	ISSUANCE ORIGINATION TASK ID	START UP	TASK A	TASK A	TASK B	TASK B	TASK C	TASK C	TASK C			(DEFECT		N(1)			2		(DETE	N(1)								
	HANDLER NO.	ı	1	1	ı	ı	T	ı	ı	1	-	ı	1					(<u>)</u> R	<u>*</u>							*		
UEST	HANDLER ATTRIBUTE	ı	1	1	1	ı	I	I	ı	1			i		_		ITEM	TASK(y))	TASK	TASK			(I V)	TASK	G	ŊĞ		
IRD REQ	ISSUED SYSTEM CALL	sta_tsk	sta_tsk	sta_tsk	ext_tsk		wai_sem	1	slp_tsk	ı	sig_sem	ext_tsk					POSTERIOR	10	7	10		1	ULT DAT	(3)STATE OF REOUEST	WAITIN	RUNNIN		
[PROCESSING 3]→[TH VARIFICATION DATA)	EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH			(COMPARISON DATA)	PRIOR POST			6			(DETERMINATION RESULT	(2)REQUEST (3)ST TASK	В	TASK A	-	
•[PRO	ORDER OF EVENTS	-	2	m	4	7	Ī	7	∞	6	01	Ξ	12			(COMP	z		2				(DETER	(1)N		2		

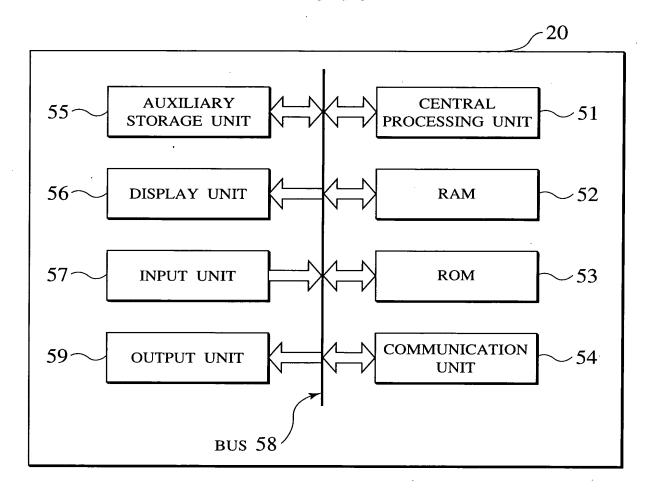
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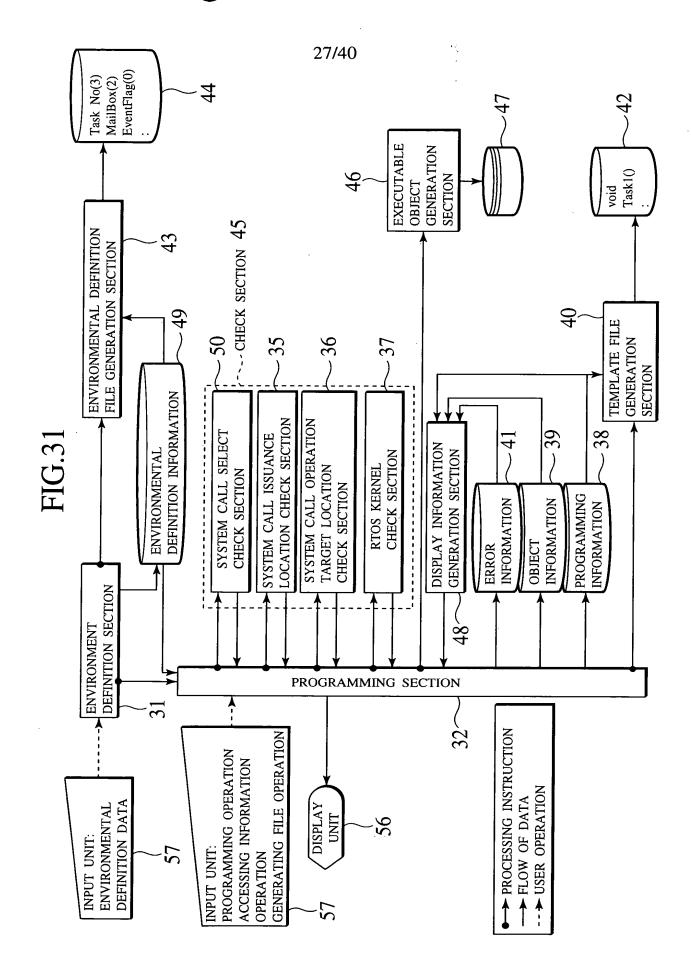
													*			_	[75])				
TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY	READY		RUNNING		RUNNING		RUNNING			RUNNING	READY		RUNNING		FOR TURNING	Z		tsk	ma						
ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION) ID	2	2	2	1	2	1	2		2	1	1	2	2		2		STEM CALL	REQUEST TASK IN	שוטוט וקשי	wup_tsk	sig_sem				* 	<u> </u>	_
ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE	TASK A	TASK B	1		TASK A	SEMAPHORE	TASK B		TASK C	SEMAPHORE		TASK A	TASK B		TASK B	V DATA	FOR	SK	ᆲ				DATA 2>	AT (3)ext_tsk	ext tsk		
TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING		DORMANT		WAITING		WAITING		RUNNING	DORMANT		RUNNING	DORMANT		SOLUTION QUESTION	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL	TURNING REQUEST TASK	IN READY STATE IS				RESULT	(2)TASK IN RUN STATE THE END OF EVENTS	TASK A	1	
ISSUANCE ORIGINATION TASK PRIORITY	1	-	-	1	1	2	2	2	2	2	2	2	2	2	2		(2)ISSUA WHICE	TURN	NE KE				(DETERMINATION	(2)TASK THE E			
ISSUANCE ORIGINATION TASK ID	START UP	TASK A	TASK A	TASK B	TASK B	TASK C	TASK C	TASK C	TASK A	TASK A	TASK A	(DEFECT		N(I)			2		(DETE	N(1)							
HANDLER NO.	ı	ı	ı	ı	1	ı	ı	ı	1	1	1		1	1	1		(í)	m	Ą	C	B	A			· *		
HANDLER ATTRIBUTE	1	i	1	1	1	ı	1	I	1	-	ı	1	1	ı	1		ITEM (TASK(v)	TASK	TASK	TASK	TASK	TASK	(I A	TASK	Q	G	
ISSUED SYSTEM CALL	sta_tsk	sta_tsk	sta_tsk	ext_tsk	1	wai_sem	I	slp_tsk		sig_sem	ext_tsk	1	wup_tsk	ext_tsk	1		OR	12	7	10	3	2	JLT DATA	(3)STATE OF REOUEST TASK	RUNNIN	RUNNING	
EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	SYSTEM CALL	- 3	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	COMPARISON DATA	PRIOR POSTERI EVENT				13 1.	11	(DETERMINATION RESUL	(2)REQUEST (3)ST TASK	TASK B	A	
ORDER OF EVENTS	1	2	3	4	5	9	7	∞	6	10	11	12	13	14	15	(COMF	z		2	3	-	2	(DETE	N(1)	-	2	

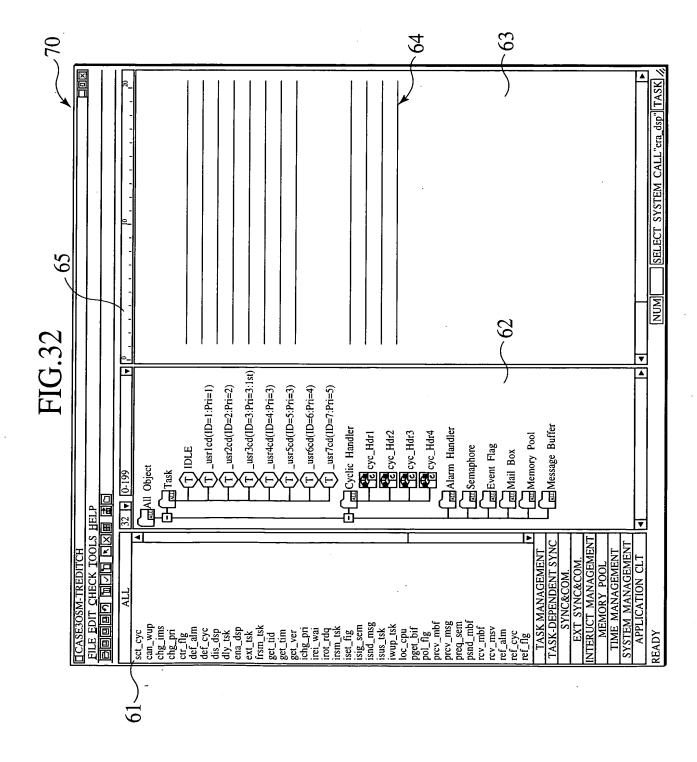
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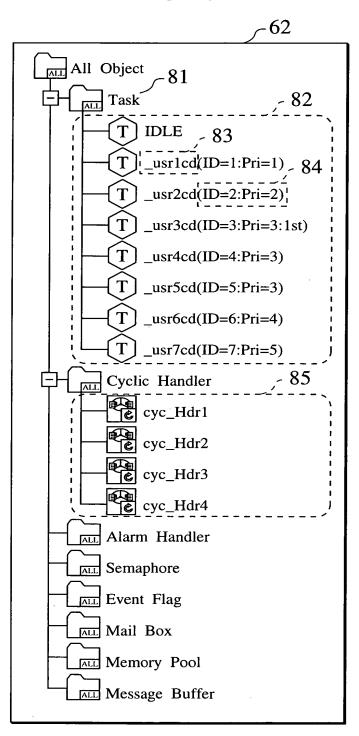
															*	*	_							1						
	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	READY	READY	READY		RUNNING		RUNNING		RUNNING			RUNNING	READY		RUNNING		FOR TURNING	NI X		tsk	em							• •	
	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION) ID	2	2	2	1	2	1	2	1	2	I		2	2		2		(3)SYSTEM CALL	REQUEST TASK IN	חוטוני וחטי	wup_tsk	sig_sem						1	1	
	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	TASK A	TASK B	i	-	TASK A	SEMAPHORE	TASK B	_	TASK C	SEMAPHORE		TASK A	TASK B		TASK B	V DATA			4				TA 2	AT (3)ext_tsk	ext tsk				
ŀ	TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	RUNNING	RUNNING	RUNNING	DORMANT		WAITING		WAITING		RUNNING	DORMANT		RUNNING	DORMANT		SOLUTION QUESTION	(2)ISSUANCE TARGET TO WHICH EVETEM CALL END	NG REQUEST T	ADY STATE IS I	- 1	TASK C		ION RESULT DATA	RUN STATE OF EVENTS	K K	'I			
	ISSUANCE ORIGINATION TASK PRIORITY	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2		(2)ISSUA WHICE	TURNI	IN RE				(DETERMINATION	(2)TASK IN THE END					
	ISSUANCE ORIGINATION TASK ID	START UP	TASK A	TASK A	TASK B	TASK B	TASK C	TASK C	TASK C	TASK A	TASK A	TASK A	(DEFECT		N(:)			2		(DETE	N(1)	-								
ŀ	HANDLER NO.		١	1	1	ı	ī	1	1	1	1	1		1		1		(5)	m	Ą	C	В	A	l		*				
ŀ	HANDLER ATTRIBUTE		Ι	I	1	1	1	1	ı		ı	ī	ı	ı	I			ITEM (TASK(v))	TASK	TASK	TASK	TASK	TASK	(1 Y	TASK		IG			
	ISSUED SYSTEM CALL	sta_tsk	sta_tsk	sta_tsk	ext_tsk	1	wai_sem	1	slp_tsk	1	sig_sem	ext_tsk	I	wup_tsk	ext_tsk	١		IOR		7	10	3	7	JLT DATA	TE OF	EADY	RUNNING			
	EVENT ATTRIBUTE	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	SYSTEM CALL	SYSTEM CALL	TASK DISPATCH	COMPARISON DATA	PRIOR POSTER EVENT			9	13	9	(DETERMINATION RESUI	(2)REQUEST (3)STA TASK					
1	ORDER OF EVENTS	-	2	3	4	5	9	7		7	01			13	14	15	(COMP.	Z		2	3		2	(DETE) N(1)	-	2			

FIG.30

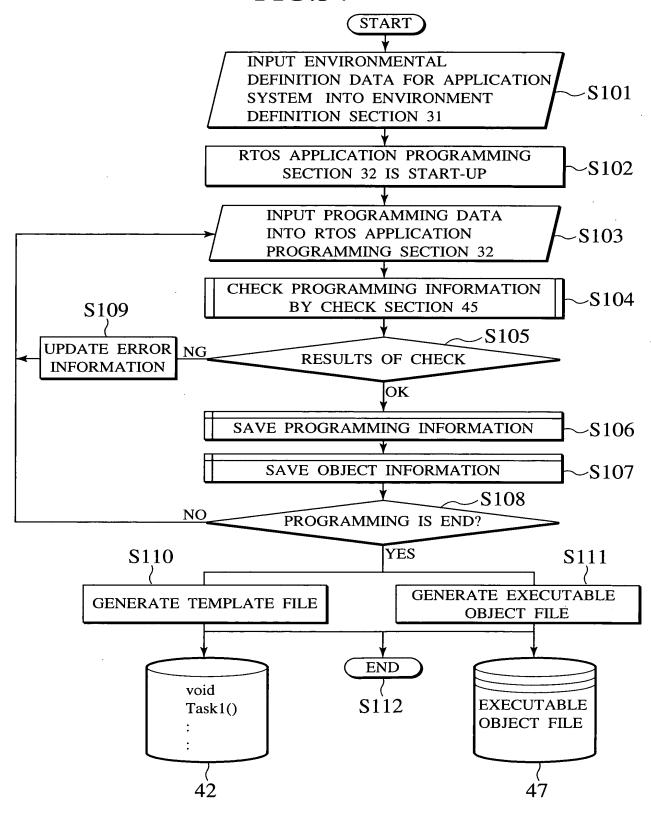






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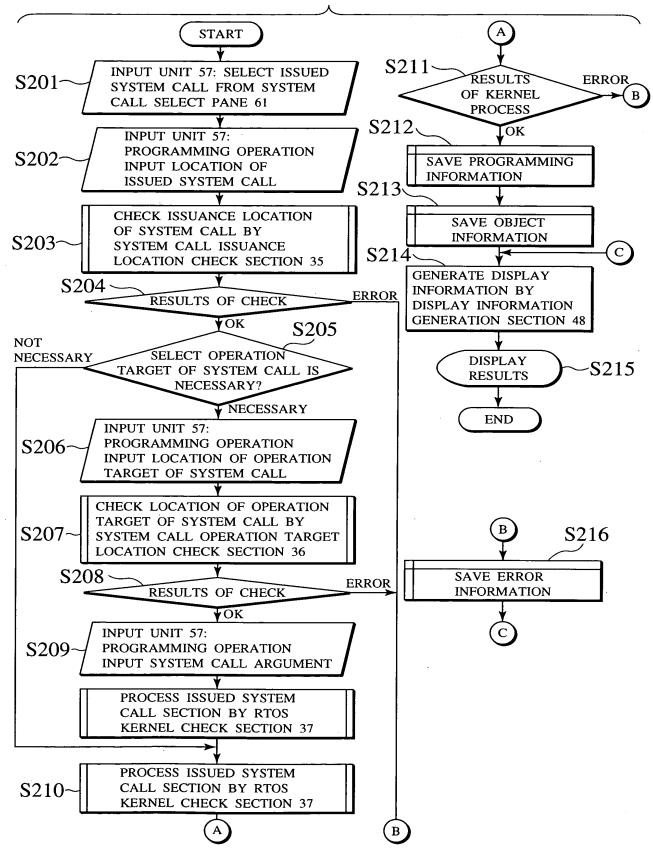
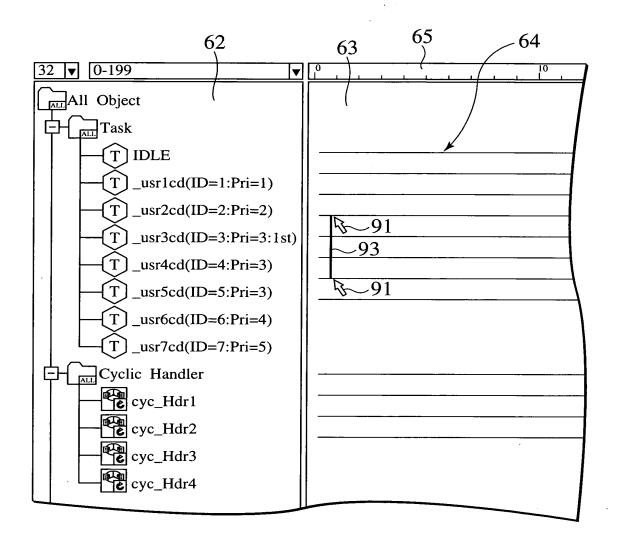
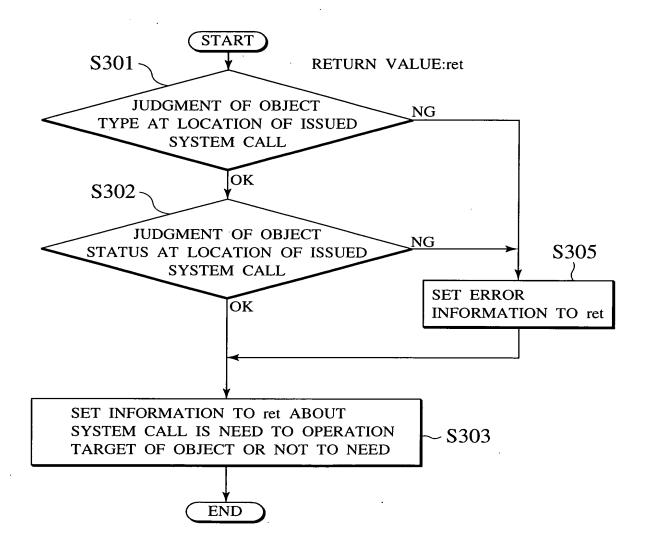
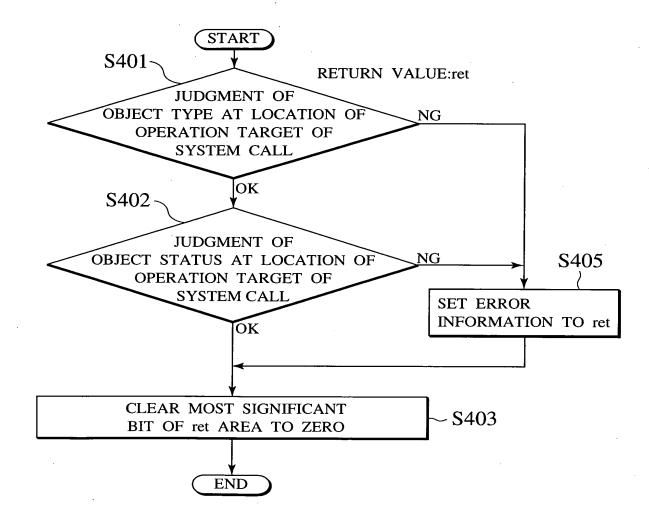
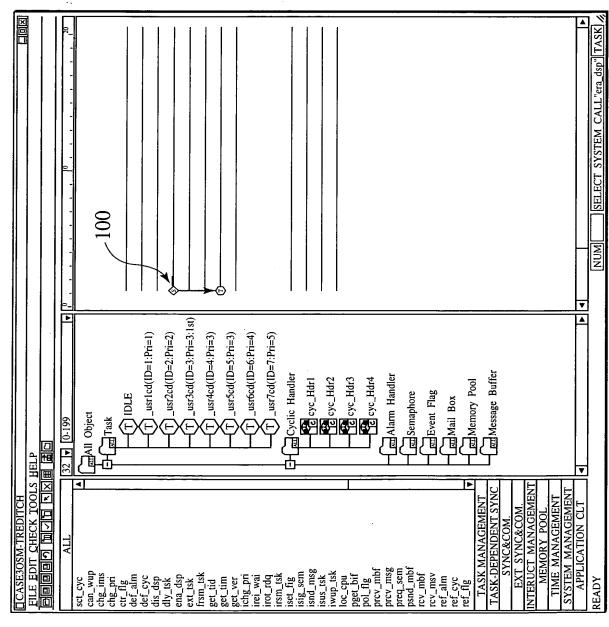


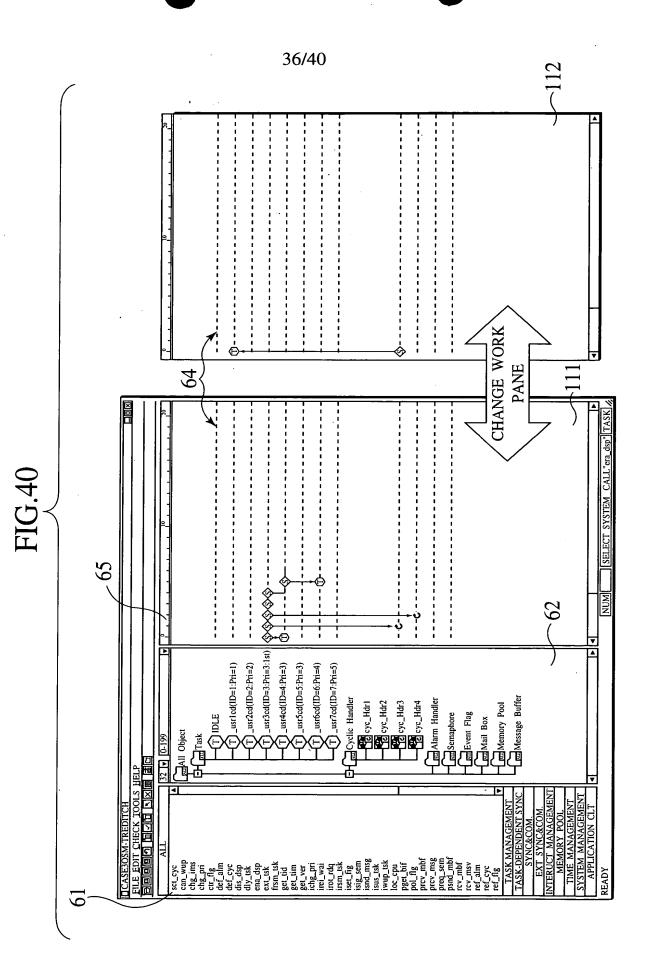
FIG.36











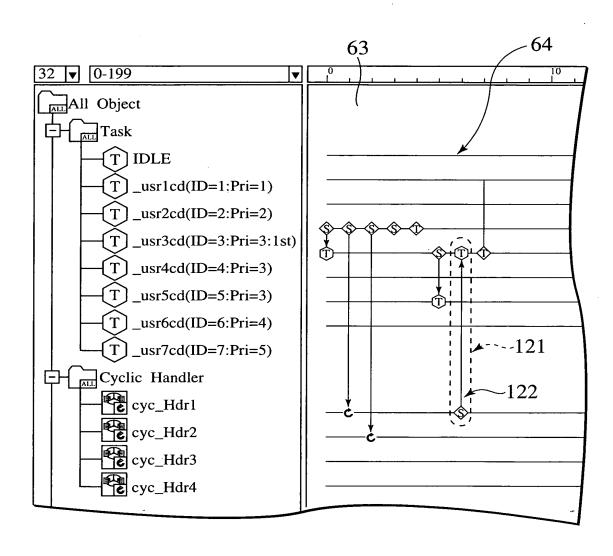
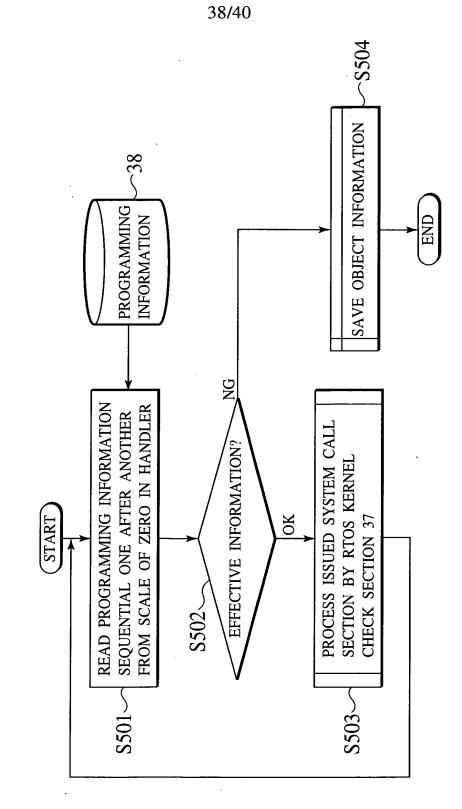


FIG.42



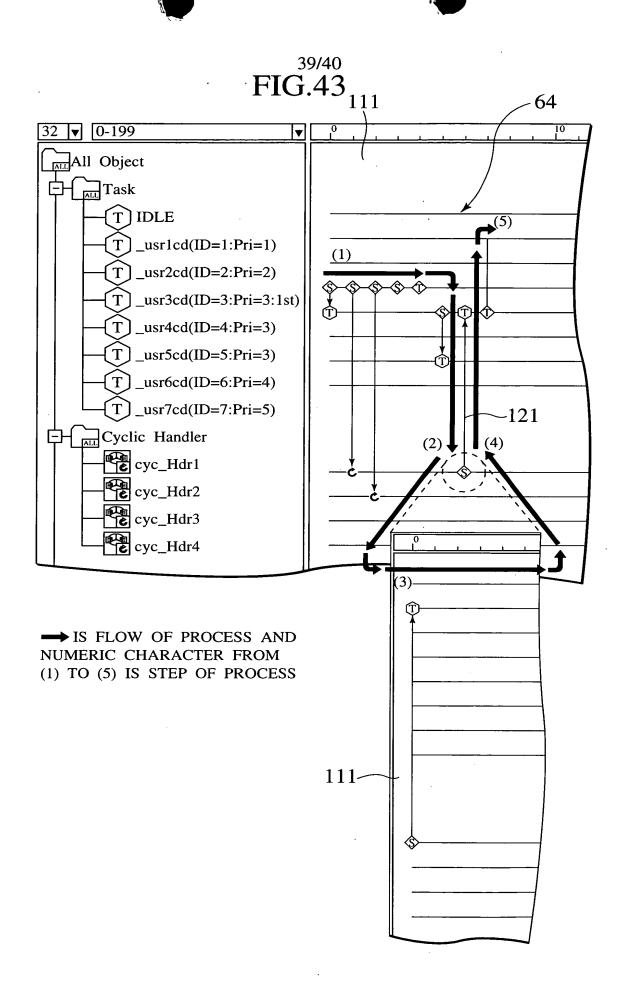
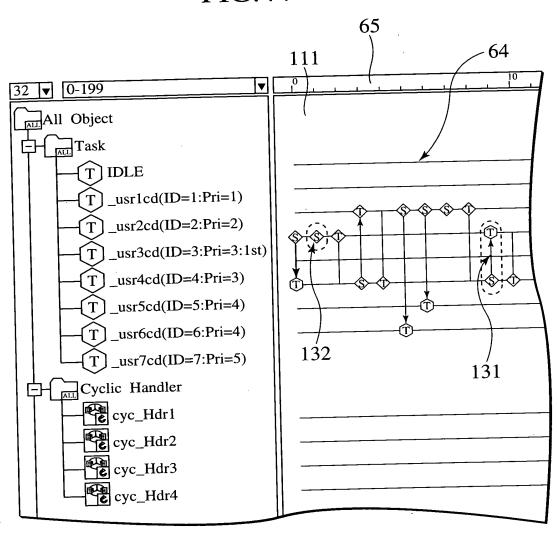






FIG.44



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